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L2	4	("6278357" "6546345").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 13:07
L3	6	("5631759" "5966684" "6366631").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 13:07
L4	14	("20020032555" "5058130" "5128964" "5966684" "6366631" "6597650" "7002890").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 13:07
L5	0	"10673735".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 13:28
L6	3	"10/673735"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 13:36
L7	0	"68126881".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 13:37
L8	2	"6812688".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 14:29

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L9	245	(eye adj diagram) and ((previous or prior or before) near4 bit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 16:04
L10	131	(eye adj diagram) and ((previous or prior or before) near4 bit) and averag\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 14:31
L11	67	(eye adj diagram) and ((previous or prior or before) near4 bit) and averag\$3 and display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 14:40
L13	61	(eye adj diagram) and ((previous or prior or before) near4 bit) and averag\$3 and display\$3 and pattern	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 14:40
L14	17	(eye adj diagram) and (((previous or prior or before) near4 bit) same pattern) and averag\$3 and display\$3 and pattern	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 19:05
L15	1178	375/348	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 15:07
L16	2434	455/296	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 15:07

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L17	12	(eye adj diagram) and (((previous or prior or before) near4 bit) with pattern)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 15:10
L18	5	9 and 15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 16:05
L19	2	9 and 16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 16:04
L20	0	("2004/0120352").URPN.	USPAT	OR	ON	2007/04/30 16:06
L21	2	"6898253".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 17:07
L22	46	"1554589"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 17:11
L23	2	"6549352".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 17:11
L24	1	(((((previous or prior or before) near4 bit) same pattern) and averag\$3 and display\$3 and pattern).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 19:05

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S1	1	"10/396118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/27 08:40
S2	1	10/688661	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 12:38

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determining a difference between a signal and a threshold used to **slice** said ... said first value corresponds to an amplitude of a **waveform** of said signal. ...

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Signal processing apparatus utilizing a partial response method ...

Thus, an impulse **waveform** of the recorded signal is detected by the differential ... based on a predetermined **pattern** by the write compensation circuit 12. ...

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function of time (b) for a realistic clock **waveform** (simulated in a ... To affect the pulse width, the residual current from a **prior bit** must interfere with ...

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Figure 1 – DSP tile comprising two DSP48 **slices** ... **waveform** will depend on the **prior bit**. **pattern** (ISI). ... form viewer to see the **waveform**. The sig- ...

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Modular transaction terminal - US Patent 6065679

At each Terminal Count (TC) of the fraction reg, the output **waveform** toggles ... The activation time varies based on **prior bit** activity and the print head ...

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Color display system with spatial light modulator(s) having color ...

Sometimes, the time **slice** is shorter to allow extra time **slices**, ... As the data for each next bit-weight is loaded, the **prior bit**-weight data is displayed. ...

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Fill block with all-ones reference **pattern** and update tag with ... With the exception of the

2.5X-SD and 3.5X-SD cases, the clock **waveform** generated ...

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Title:

**METHOD AND APPARATUS FOR DETERMINING
INTER-SYMBOL INTERFERENCE FOR
ESTIMATING DATA DEPENDENT JITTER**

Document Type and Number:

European Patent EP1554589

Link to this page:

<http://www.freepatentsonline.com/EP1554589.html>

Abstract:

Abstract not available for EP1554589

Abstract of correspondent: **WO2004036231**

A method and apparatus for displaying substantially noise-free segments of serial data waveforms. The method comprises the steps of dividing an acquired waveform into a plurality of waveform slices and categorizing each of the plurality of waveform slices according to at least a sequence of N bit values prior to a bit value being observed. The waveform slices in each category are then averaged resulting in an average pattern for each category. Each of said averaged patterns is then displayed on a display in an overlaid manner.

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**1 METHOD AND APPARATUS FOR DETERMINING INTER-SYMBOL
INTERFERENCE FOR ESTIMATING DATA DEPENDENT JITTER**

Inventor: MILLER MARTIN (CH)

Applicant: LECROY CORP (US)

EC: G01R13/02E; G01R29/26

IPC: **G01R13/02; G01R29/26; G01R13/00** (+3)

Publication info: **EP1554589** - 2005-07-20

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METHOD AND APPARATUS FOR DETERMINING INTER-SYMBOL INTERFERENCE FOR ESTIMATING DATA DEPENDENT JITTER

Publication number: EP1554589

Publication date: 2005-07-20

Inventor: MILLER MARTIN (CH)

Applicant: LECROY CORP (US)

Classification:

- International: **G01R13/02; G01R29/26; G01R13/00; G01R29/00;**
(IPC1-7): G01R13/02; G01R29/26

- European: G01R13/02E; G01R29/26

Application number: EP20030809122 20031017

Priority number(s): WO2003US32978 20031017; US20020419507P
20021018

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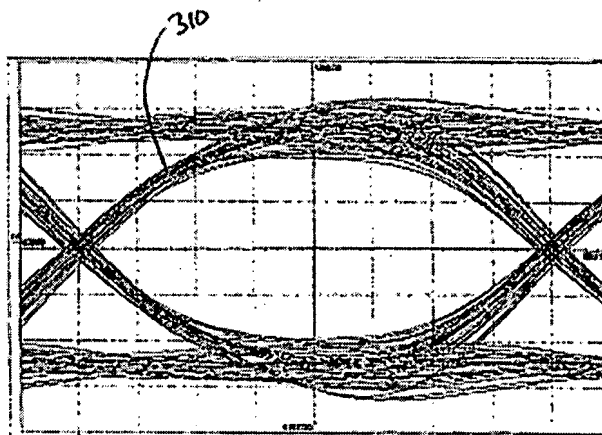
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The method of claim 9, wherein said second plurality of **waveform slices** depict a substantially ISI-free jitter component associated with said acquired ...

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Figure 1 – DSP tile comprising two DSP48 **slices** ... **waveform** will depend on the **prior bit**. **pattern (ISI)**. ... form viewer to see the **waveform**. The sig- ...

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prior bit interfering with a later bit. The effect, known as inter-symbol interference (ISI), causes a reduction in amplitude and eye-width. ...

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...Reduction in data eye due to **ISI** from an RC filter...switches. (a) shows the clock **waveforms** and (b) shows the schematics...time (b) for a realistic clock **waveform** (simulated in a 0.5- μ m process...clock slew rates. The clock **waveform** for each of the curves are...
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MILLER, Martin, PATENT COOPERATION TREATY APPLICATION, Apr 2004
...either PRBS, constant **pattern**, truly random... or even...in that it determines **ISI**-based deterministic jitter...in timing and vertical **waveform** characteristics which...special (100000 and 011111) **pattern**-averages, one can learn...domain nature of the **ISI** physical phenomenon...this second pass, the **prior bit** history of the rising...
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Miller, Martin, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Jul 2004

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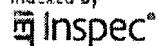
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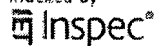
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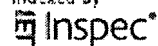
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Volume 49, Issue 1, Jan. 2001 Page(s):9 - 13
Digital Object Identifier 10.1109/26.898242
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- ☐ 2. **Results using an alternative approach to channel equalization using a pa classification strategy**
Caimi, F.M.; Hassan, G.A.;
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Volume 2, 13-16 Sept. 1999 Page(s):580 - 584 vol.2
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- ☐ 3. **Decision feedback equalizer with pattern dependent dynamic threshold**
Weining Zeng; Moon, J.;
[Magnetics, IEEE Transactions on](#)
Volume 32, Issue 4, Part 2, July 1996 Page(s):3266 - 3273
Digital Object Identifier 10.1109/20.508391
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Hughes, G.F.; Xiaodong Che; Beach, R.S.;
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- ☐ 5. **Study of behavior of digital modulations for beam steerable reflectarray a**
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Volume 53, Issue 3, March 2005 Page(s):1083 - 1097

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6. **Performance Evaluation of Tilt Beam Smart Antenna for Multicarrier Com**
Takyu, O.; Nakagawa, M.;
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Oct. 2006 Page(s):1 - 5
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7. **Intersymbol interference effects on BPSK and QPSK carrier tracking loop**
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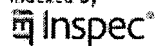
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